City of Marquette Dual-Stream Recycling Overview



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> U.P. Solid Waste Forum Thursday, February 26th, 2015

Background: Mission

Environment/Recycle-Reuse-Diversion

Value/Control costs of MSW program

Background: City Services

- Curbside Garbage Collection
- Curbside Recycling Collection
- City Facility Dumpster Collection
- Rubbish Drop Off Site
- Compost Drop Off Site (not active in winter)
- Christmas Tree Drop Off Site
- Curbside brush/leaf collection (spring and fall)

Background: Costs

- Current
 - \$14.65 flat rate on monthly utility bills
 - \$1.50 per bag "pay as you throw"
- Average: 1 bag/household/week
- Average: \$21.15/month for MSW disposal
 - \$6.50/month on bags
 - \$14.65 flat rate



Background: "Zero Waste"

- Zero Waste: Goal v. Reality
- Recycling and Solid Waste Breakdown
 45% Traditional Recycled Materials
 43% Organics
 9% Garbage
 2% Household Hazardous Waste (HHW)
 1% Electronics

Source: 2011 Maine Residential Waste Characterization Study – U. of Maine

Background: Single-stream

Previously: Single-stream curbside collection through WM

Recycling Rate: ~21-22% in 2013

Public Input/Questions

Recycling Rate (Jan. 2013-Feb. 2014)



Background: Goals/Practices

- Reduce/Reuse/Recycle
- Minimize carbon footprint
- Pursuit of the four sectors of sustainability
- Educational Focus
 - Sustainability
 - Health and quality of life
 - Developing and financing new markets
 - Collaborating across sectors and jurisdictions

Background: Looking Ahead

- Hauler service costs were rising
- There was an anticipation that landfill tipping fees – which are ultimately passed on to the City and then to the resident – may soon increase. This is now happening.
- City wanted to control costs for the customer while providing equal or better service/access
- MCSWMA Director approached City

The Plan

- MCSWMA eyeing countywide program
- City would deliver material to MCSWMA
- Authority would:
 - Process
 - Market
 - Deliver to end users

The Plan

 MCSWMA would cover their costs, and return 60% of remainder to the City

- A caveat: MCSWMA would need to operate in a dual-stream system
 - Pros: Cleaner streams for marketing
 - Cons: Less overall material recycled

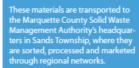
- Agreement in Feb. 2014
- Switch in May 2014
- Two streams: Fibers and Rigids
- Alternating weekly curbside collection
- Anticipatory outreach
 - Media
 - Mailings
 - Forums

The flyer/schedule is located at various public venues and can also be found on the City website. Additionally each resident receives a copy of the flyer in their utility bill.



A Dual-Stream System

materials are divided into two separate "streams," which are collected on alternating weeks at the same time as your garbage.



So when you set your garbage out for weekly collection, just place your recyclables — Fibers or Rigids, deof your drive, behind the curb, in any hard-walled bin or container. Please utilize a lid if you have one.

All we ask is that you separate containers and lids, and break down large pieces of cardboard into a manageable size (about 2' x 2').

The chart to the right will help differentiate between Fibers and Rigids A 2015 schedule is on the back.

Paper + Cardboard

Staples and plastic envelope windows may be included

FIBERS











Corrugated cardboard Shoe boxes Cardboard egg cartons Beverage cartons and boxes Paper shopping bags Office paper Folders Phone books Spiralbound notebooks Non-metallic gift wrapping

RIGIDS

rinse containers & remove lids

A- B Plastic + Metal + Glass Labels can stay, but please



Glass bottles jugs & jars







Soda/condiment containers Mouthwash bottles Juice bottles Milk jugs Yogurt and margarine tubs Reusable water bottles Detergent/shampoo bottles Hard plastic toys Utensils CD and DVD cases

ALSO.

Anything that can't be recycled must be landfilled. The City and the MCSWMA encourage residents to divert as much as possible from the landfill, through recycling, composting and re-use. For instance, plastic bags are not accepted through the City curbside collection, but can be re-used at home or returned to some local stores for recycling. Similarly, many organic materials can be composted rather than thrown in the trash bin.

With this in mind, the following materials are not recyclable through the City program:

- Foams • Films (Plastic Bags, Plastic Wrap) Food-Coated Items
- Photo Paper Bubble-Wrapped Envelopes Photographs • Food or Other Organic Materials

City of Marquette Public Works | pubworks@mqtcty.org | 228-0444 MCSWMA | mqtcorecycling@gmail.com | 249-4125 www.mqtcty.org/pworks-recycle.php www.mcswma.com

Posters are rotated weekly, and placed prominently throughout the City. Locations include Peter White Public Library, City Hall and Lakeview Arena.

THIS WEEK, PLEASE RECYCLE

R Marie Comment

MATERIALS

For this week's free recycling collection, City residents should place rigid materials at the curb, in a hard-walled bin or tote.









RIGIDS INCLUDE

Metals, Glass and Plastics (ムーろ)

EXAMPLES INCLUDE:

- Soda and Condiment Containers
- Tin Cans
- Medicine and Mouthwash Bottles
- Glass Bottles, Jugs and Jars
- Juice Bottles and Milk Jugs
 Yogurt and Margarine Tubs
- Reusable Water Bottles
- Detergent and Shampoo Bottles
- Hard Plastic Toys
- Utensils
- CD and DVD Cases

BUT PLEASE

- REMOVE lids and caps from containers. The lids and caps are recyclable, but must be separate from containers.
- RINSE containers thoroughly before placing them out for collection. Foodcontaminated containers will not be accepted.
- DO NOT place rigid materials curbside in plastic or paper bags. Bags will not be collected.
- DO NOT include film, foam materials, photo paper or bubble envelopes/bubble wrap. These materials are not recyclable.

Recyclable materials can also be dropped off at the Municipal Service Center, located at 850 W. Baraga Avenue. For more information on the City's curbside recycling program, please visit www.mqtcty.org/pworks-recycle.php. If you have questions or comments, please call the City of Marquette's Public Works Department at 906-228-0444.







- Learning curve
 - July 2014: 17.79%
- Additional outreach
 - Forums
 - Flyers/Posters
 - Website/Social Media
 - Drop-off Locations

A static link at the top of the City website identifies the correct week for collection, and links to relevant info.



Recycling Rate (Jan. 2013-Jan. 2015)



Early Results

- Increased rate extends the life of the landfill
 - This benefits all MCSWMA constituents
- Regional recycling lowers carbon footprint
- Residents can see the process
- Made recycling more readily available
- 60% Share: Nearly \$5,000 from May-Dec
 - ~\$12.50/ton

Next Steps

- Additional outreach
 - Rentals/Off-campus students
 - Talking about recycling promotes recycling
- Listening to resident feedback
 - Pizza boxes
 - Bins/Containers
 - Organics
 - More drop-off locations